PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

REC'D	4	5	MAR	2006
WIPO				PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ON	See Form PCT/IPEA/416
57637/1361			Priority date (day/month/year)
International application No.	International filing date (da)		
PCT/US04/42710	20 December 2004 (20.12.2004) 23 December 2003 (23.12.2003)		23 December 2003 (23.12.2003)
International Patent Classification (IPC)			
IPC: A61K 31/675(2006.01); A61P USPC: 540/474; 514/79	43/00(2006.01);C07D 257/0	12(2000.01)	
Applicant			
BRACCO IMAGING S.P.A.			
Examining Authority unde	er Article 35 and transmitte	d to the applicant a	shed by this International Preliminary coording to Article 36.
2. This REPORT consists of	a total of 5 sheets, in	cluding this cover s	heet.
3. This report is also accomp	panied by ANNEXES, com	prising:	
a. (sent to the applica	ant and to the International	Bureau) a total of	sheets, as follows:
of this report	ort and/or sheets containing ection 607 of the Administration	g rectifications autrative Instructions).	horized by this Authority (see Rule
amendment	ich supersede earlier she that goes beyond the di item 4 of Box No. I and th	sclosure in the ir	nis Authority considers contain an international application as filed, as x.
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indic	cations relating to the follow	wing items:	
Box No. I	Basis of the report		
Box No. II P	Priority		•
* ************************************	Non-establishment of opinicapplicability	on with regard to no	ovelty, inventive step and industrial
Box No. IV	Lack of unity of invention		
Box No. V	Reasoned statement under industrial applicability; cita	Article 35(2) with tions and explanation	h regard to novelty, inventive step or ons supporting such statement
Box No. VI	Certain documents cited		
Box No. VII	Certain defects in the inter	national application	
Box No. VIII	Certain observations on the		
Date of submission of the demand		Date of completio	n of this report
06 July 2005 (06.07.2005)		06 March 2006 (06.	03.2006)
Name and mailing address of the IPEA		Authorized officer	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Brenda L. Colemar	7. Roberts for
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Telephone No. 571	-272-1600

Form PCT/IPEA/409 (cover sheet)(April 2005)

International application No.	
PCT/US04/42710	

Box No). I	Basis of the report
1. Wir	h res	ard to the language, this report is based on:
	_	international application in the language in which it was filed.
		anslation of the international application into, which is the language of a translation furnished the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4(a))
	<u> </u>	international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
	<u> </u>	
furn	ished	gard to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" not annexed to this report):
\geq	the	international application as originally filed/furnished
\boxtimes	A	description:
		ges 1-63 as originally filed/furnished
	pa	ges* NONE received by this Authority on received by this Authority on
K	- Я	
X		claims:
	pa	ges 64-38 as originally filed/furnished ges* NONE as amended (together with any statement) under Article 19
	-	ges* NONE as afficiated (together with any statement) and a same factor with any statement, and a same factor with a same facto
	_	ges* NONE received by this Authority on
	- _{the}	· drowings:
		e drawings: ges <u>NONE</u> as originally filed/furnished
	_	ges* NONE received by this Authority on
	-	ges* NONE received by this Authority on
		sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
	_	
3.	T	ne amendments have resulted in the cancellation of:
	Γ	the description, pages
		the claims, Nos
		the drawings, sheets/figs
	L.	the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
_		
4.	∐ T si	his report has been established as if (some of) the amendments annexed to this report and listed below had not been made, note they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
į	Γ	the description, pages
	Ī	the claims, Nos.
	ļ	the drawings, sheets/figs
	[the sequence listing (specify):
	L [any table(s) related to the sequence listing (specify):
	L	
* If i	tem 4	applies, some or all of those sheets may be marked "superseded."

International	app!	lication	ı No

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Box No.	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The quest	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to rially applicable have not been examined in respect of:	
	the entire international application	
	claims Nos. 2-4 and 6-22 (in part)	
	because:	
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):	.,
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):	
by the w	the claims, or said claims Nos. 2-4 and 6-22(in part) are so inadequately supported by the description that no meaningful opinion could be formed (specify): ritten description where R, R3 and R9 are bound to the polyazamacrocyclic compound via an additional CH2.	
by me w		
	no international search report has been established for said claims Nos.	
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:	
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.	
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.	
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.	
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.	
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.	
	See Supplemental Box for further details	

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NO

Box No. V Reasoned statement under A applicability; citations and ex	rticle 35(2) with regard to novelty, inventive step or inventive step or inventions supporting such statement	ndustrial
1. Statement		
Novelty (N)	Claims NONE Claims 1, 5, 6-22 (in part) and 23	YES
Inventive Step (IS)	Claims NONE Claims 1, 5, 6-22 (in part) and 23	YES NO
Industrial Applicability (IA)	Claims 1, 5, 6-22 (in part) and 23	YES

2. Citations and Explanations (Rule 70.7)

Claims 1, 5, 6-22 (in part) and 23 lack novelty under PCT Article 33(2) as being anticipated by ZIMOVA et al., Czechoslovak Journal of Physics. ZIMOVA teaches the compounds, compositions and method of use of the polyazamacrocyclic compounds where R, R3 and R9 are COOH; and R6 is PO₂H₂, PO₃H₂, PO₂H-CH₂-C₆H₅, PO₂H-CH₂-C₆H₄-NH₂, or PO₂H-CH₂-C₆H₄-NO₂.

Claims NONE

Claims 1, 5, 6-22 (in part) and 23 lack an inventive step under PCT Article 33(3) as being obvious over ZIMOVA et al., Czechoslovak Journal of Physics. For reasons stated above.

Claims 1, 5, 6-22 (in part and 23 meet the criteria set out in PCT Article 33(4), and thus the compounds, compositions and method of use of the polyazamacrocyclic compounds have industrial applicability because the subject matter claimed can be made or used in industry.

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Box No. VIII	Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 2-4 and 6-22 (in part) are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims are indefinite for the following reason(s): the structural formulaes set forth in claims 2-4 are such that there is and additional -CH₂-moiety linking the variable R, R3, R6 and R9 to the nitrogen atoms of the polyazamacrocyclic ring system.

Form PCT/IPEA/409 (Box No. VIII) (April 2005)